## **CLAIM AMENDMENTS:**

This listing of claims will replace all prior versions and listings of claims in the application: Claims 1-20 (Cancelled)

- 21. (Currently amended) A method for inducing chondrogenesis, said method comprising administering to a patient an effective amount of a composition comprising autologous non-tissue culture expanded CD105+ cells isolated from the patient's bone marrow and a suitable matrix carrier.
  - 22. (Cancelled)
- 23. (Previously presented) The method of claim 21 further comprising administering a protein selected from the Transforming Growth Factor-Beta (TGF-β) superfamily of proteins, wherein the protein is capable of inducing the formation of cartilage tissue.
- 24. (Previously presented) The method of claim 23 wherein said protein is a bone morphogenetic protein (BMP).
- 25. (Previously presented) The method of claim 24 wherein the BMP is BMP-2 or BMP-9.
- 26. (Currently amended) A method for treating arthritis, said method comprising administering to a patient an effective amount of a composition comprising autologous non-tissue culture expanded CD105+ cells isolated from the patient's bone marrow and a suitable matrix carrier.

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- 27. (Currently amended) A method for treating articular cartilage defects or damage, said method comprising administering to a patient an effective amount of a composition comprising autologous non-tissue culture expanded CD105+ cells isolated from the patient's bone marrow and a suitable matrix carrier.
- 28. (Currently amended) A method for repairing cartilage tissue said method comprising administering to a patient an effective amount of a composition comprising autologous non-tissue culture expanded CD105+ cells isolated from the patient's bone marrow, a suitable matrix carrier, and a protein selected from the TGF-β superfamily of proteins, wherein the protein is capable of inducing the formation of cartilage tissue.
- 29. (Previously presented) The method of claim 28 wherein said protein is a BMP.
  - 30. (Cancelled)
- 31. (Previously presented) The method of claim 29 wherein the BMP is BMP-2 or BMP-9.
- 32. (Previously presented) The method of claim 26, further comprising administering protein selected from the TGF-β superfamily of proteins, wherein the protein is capable of inducing the formation of cartilage tissue.
- 33. (Previously presented) The method of claim 32, wherein said protein is a BMP.
- 34. (Previously presented) The method of claim 33, wherein the BMP is BMP-2 or BMP-9.

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- 35. (Previously presented) The method of claim 27, further comprising administering a protein selected from the TGF- $\beta$  superfamily of proteins, wherein the protein is capable of inducing the formation of cartilage tissue.
- 36. (Previously presented) The method of claim 35, wherein said protein is a BMP.
- 37. (Previously presented) The method of claim 36, wherein the BMP is BMP-2 or BMP-9.